

ABSTRACT OF THE DISCLOSURE

The optical system of a projection display apparatus comprises a light source, a prism, a light valve, and a projection lens. Wherein a light beam emitting from the light source impinges into the prism, and passes through the first surface of the prism directly to illuminate the light valve which
5 is placed near the first surface and parallels the first surface. By the reflection of the light valve, the light beam impinges into the first surface again, and illuminates a total internal reflection surface with an incidental angle large than the critical total reflection angle, so as to reflect the light beam out of the second surface of the prism and impinge to projection lens to form an image. Therefore, the optical system can increase the transmission and decrease the components, and the volume of it
10 will be more compact.